

**Friday July 19, 2019 730pm**  
**Our Saviors Lutheran Church**  
**1035 Carol Lane Lafayette**  
**DX Interest Group Meeting**  
**With Dave Piersall, N6ORB 6:30pm**  
**\* License Testing 6pm \***

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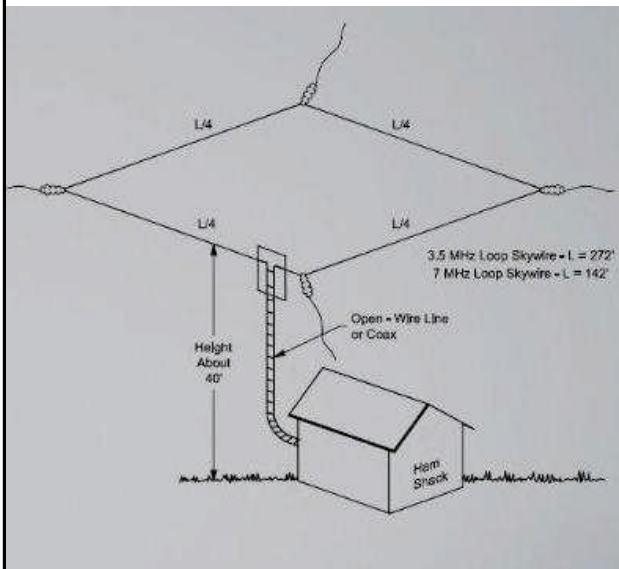
## JULY 19 PROGRAM

# LOOP ANTENNAS



Michelle Paquette has lived in the San Francisco Bay Area most of her life. She has worked in fields from nuclear power plant operations to systems software and software engineering, as both an engineer and an instructor. She holds 19 patents for inventions used by hundreds of millions of people every day. Michelle currently holds amateur extra class license AA6MP. She is currently engaged in teaching and public speaking on a variety of topics,

including the intersection of physics and amateur radio.





**Anthony Cunha, KJ6IUE**  
**David Dyche, KN6CGT**  
**Diane Kern (license pending)**  
**Gordon LaPorte, K1VHR**  
**Karen Mallya, KM6NSY**  
**Erik Parker, K4AZN**  
**William Rich, N6GR**  
**Michael Young, KN6CVO**

If you hear any of these new members on the air, please welcome them to our club.

— *Tom Deeble, KA6SIP*



**When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.**

**Go to:**

**<https://smile.amazon.com/ch/23-7072059>**

ALL MEMBERS ARE INVITED TO JOIN THE CLUB E-MAIL GROUP.  
DOWNLOAD FILES, INCLUDING *THE CARRIER* IN **FULL COLOR** AS WELL AS SHARE INFORMATION WITH THE MEMBERSHIP AT:

**<https://groups.io/g/MDARC>**

*(the Yahoo group will be abolished)*

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**Mount Diablo Amateur Radio Club W6CX**  
**P.O. Box 23222 Pleasant Hill, CA 94523**  
**(925) 288-1730**

*The Carrier* is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

**President** - Larry Bradley, KK6QPE  
**Vice President** - Ed Morales, KJ6KYT  
**Secretary** - Larry Loomer, KI6LNB  
**Treasurer** - Cathi Walton, K2CJW  
**Emergency Coordinator** - Ron Bunch, W4FEK

#### **Directors At Large**

Trevor Hall, WA6JAU      Dave Piersall, N6ORB  
John Primus, AF6RJ      Mike Warren, W6MEW

**Membership Chair** - Tom Deeble, KA6SIP  
[mdarcmembership@mdarc.org](mailto:mdarcmembership@mdarc.org)

#### **PACIFICON 2019**

Co-Chairs: Misa Siemons, KJ6BUE,  
Vicki Zumwalt, N6KLS, Julie Mah, WJ8MAE

Registration: Debbie Deeble  
Treasurer: Jim Siemons, W6LK  
Secretary: Cathi Walton, K2CJW

#### **COMMITTEE CHAIRS AND COORDINATORS**

Annual Auction - Jim Siemons, W6LK  
Communications Trailer - Larry Loomer, KI6LNB  
Communications Van MDARC -1 - Jim Tittle, K6SOE  
Digital Media - Mike Patterson, N6JGA  
Education & Training - John Primus, AF6RJ  
Field Day - Larry Loomer, KI6LNB  
Good & Welfare Coordinator - Diana Sage, KA6TZU  
Holiday Dinner Coordinator - Misa Siemons, KJ6BUE  
License Testing - Larry Loomer, KI6LNB  
Outreach Coordinator - Dick Wade, WM6G  
Public Service Coordinator - Klaus Berkner, K6KHB  
Refreshments Coordinator: Elizabeth Styles, KG6HLV  
Repeater Trustee W6LGW - Dick Brown, KT6X  
Repeater Trustee W6CX - Jim Tittle, K6SOE  
Technical Committee Chair - Jim Siemons, W6LK

#### ***The Carrier* Newsletter**

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#### ***Amateur Television Help and Information:***

Fred Coe, WB6ASU      [wb6asu@icloud.com](mailto:wb6asu@icloud.com)



# President's Message

MDARC Family:

Last month was the club's biggest operating event of the year...ARRL Field Day. This year's chair, Larry Loomer, KI6LNB, oversaw an excellent operation at Heather Farm Park in Walnut Creek. Thank you to all that participated and helped showcase our club and amateur radio to the community. Special thanks to Charles Henry, KG6PHZ, for again bringing his solar power array to Field Day (and thus earning the club bonus points!).

We still need volunteers to help at PACIFICON. Contact our co-chairs for further information. Tickets are now available at [www.pacificon.org](http://www.pacificon.org).

There will be a more detailed President's Message next month.

***"The greatest motivational act one person can do for another is to listen."***

**Roy E. Moody**

*73, Larry Bradley KK6QPE*



**THE POWER AND THE GLORY:** Solar array graciously loaned by member Charles Henry, KG6PHZ, powered all ARRL Field Day 2019 W6CX equipment, including MDARC-1 communications van, shown on Saturday evening June 22. (N4DLA photo)

# ARRL FIELD DAY 2019 REPORT

*By Larry Loomer, KI6LNB, Field Day Chair*

The MDARC Field Day event was held at Heather Farm Park on June 22 and 23, 2019.

Setup was begun on Friday, June 21 in the early afternoon. The MDARC Van and the MDARC Trailer were brought to the designated parking lot and positioned for operation. Personal popups were set up and the MDARC tent was laid out and assembled. Once the trailer was set up with two HF antennas and the trailer's solar array to charge the trailer battery, FT-8 communication was begun. The van was set so that Amateur Television (ATV) communication could be made with North Peak of Mt. Diablo. A 40 meter dipole was strung from the van's mast to two nearby anchor points.

Late in the afternoon the Solar Trailer of Charles Henry KG6PHZ, arrived on site. Charles positioned it to take full advantage of the morning sun and the afternoon sun that flooded the parking lot. A crew was put together to assemble all of the pieces of the solar system that were stored on the trailer. Once the supporting frame was assembled, the solar panels were placed on the frame. There are 12 solar panels, 5 - 250 watt plus 7 - 265 watt, for a total of 3106 watts, or 3.1 Kw. The connecting wires were daisy-chained together and connected to the four mppt 60 amp controllers that were mounted in their own air cooled box on the trailer. New this year was a box to cover the 30 - 110 amp hour deep-cycle batteries that came with the trailer, and a 2500 watt inverter for producing 120 volts AC from the 12 volt DC batteries.

In the evening pizza was served for dinner, and practice contacts were being made.

The next morning breakfast was served and set up continued. At 11:00 AM, the Field Day operations began. Jim K6SOE was on 40 Meters and Mike W6MEW was operating FT-8 Digital on 20 meters and 40 meters.

At 1:00 PM, there was license testing at Field Day. We had 5 new Technicians, 3 new Generals and one new Extra licensee. It was a successful session. The VEs were Jim Turnbull WW1ACE, Mike Patterson N6JGA, and Jim Brunk N6BHX who came from the Martinez Amateur Radio Club Field Day site to be at our license testing session.

During the afternoon, Pete Harris KE6ZIW was busy demonstrating his Buddipole antenna and showing visitors how to set it up and tune it for the various HF frequencies. He provided ham radio education and promotion to the many visitors that stopped by his ham radio setup.

In the late afternoon, the BBQ was started and the tri-tip was picked up from Kinder's. Dick Wade WM6G was the chef on the BBQ, and he received many compliments on his meat preparation work. Terry Buxton KK6KGX prepared the food and supervised its presentation to the hams that were present for the BBQ. She supervised the food activities for the entire Field Day period as well. Dick Wade WM6G also handled the Visitors' Log and the Information Booth.

After dinner, the contesting continued. Matthew Vurek N4DLA came over from the Lamorinda Amateur Radio Interest Group Field Day site to join MDARC and operated with us into the night. Sunday morning dawned with plenty of reserve power in the solar trailer batteries to power the remaining hours of Field Day activities. The FT-8 station continued operating into the morning.

At 11:00 AM, the Field Day operations came to a close.

After the lunch was served, the hams did a great job of packing things and getting them ready to be removed from the site. A group of hams took apart the Solar Trailer and readied it for being transported to the next location where it would become the center attraction for its ability to generate off-grid power. The MDARC tent was dismantled and the Trailer was packed up for return to its resting place. Hams took down the MDARC van's antennas and put them away for the next time that the van would be called into service. A thorough inspection of the site was made for trash.

Mike Patterson N6JGA and Jim Tittle K6SOE were the Safety Officers for the entire Field Day experience. Their report sheets were turned in to Dick Wade WM6G, who was in charge of totaling up the participation points for the Club, to be turned in to ARRL Headquarters. Dick calculated 1348 points from all of the activities that occurred at the MDARC Field Day site.



Mike Warren, W6MEW (seated), demonstrates the solar-powered HF FT8 station inside the club trailer during ARRL Field Day 2019 at Heather Farm Park. (*KI6LNB photo*)





# Field Day and How to Show Kids the Magic of Ham Radio

Story and Photos By Pete Harris, KE6ZIW

Mary, a long time Walnut Creek friend who moved to the New York area about two years ago to be closer to her five year old grandson Justin, asked me a couple of weeks ago how she might introduce Justin to ham radio. Mary doesn't know much about ham radio but had a relative during her childhood who was a ham...and she knew I was a ham.

I suggested she bring Justin to a local Field Day event. There he can get exposed to what this type of radio communications looks and sounds like. He can learn that those invisible electromagnetic waves fly off the big antenna, go way up into the sky, bounce off the ionosphere, and come back down to Earth, sometimes thousands of miles away, over state lines, across oceans and continents.



And at the other end there is someone else with a radio whose antenna catches those waves, who can hear the crackly message that was sent from far away. I suggested she tell Justin it truly is like magic! Wyatt and I are using a portable HF station on Wyatt's back patio in San Antonio TX, where we were able to make contacts with other hams as far as Brazil, Eastern Canada, and the U.S. East and West coasts.

Coincidentally, one of the hams that responded to our "CQ from San Antonio" was long time MDARC member Barry Isseks, K6ZA, from Walnut Creek. Barry spoke to Wyatt on the air for several minutes. It really excited Wyatt that he was able to talk to one of my friends who was about 1,500 miles away, with invisible electromagnetic waves going through the sky.

# MDARC BOARD OF DIRECTORS MEETING

Black Bear Diner, Walnut Creek, CA June 3, 2019

Attendees: Larry Bradley KK6QPE, Larry Loomer KI6LNB, Cathi Walton K2CJW, Ron Bunch W4FEK, Trevor Hall WA6JAU, David Piersall N6ORB, Mike Warren W6MEW, John Primus AF6RJ, Mike Patterson N6JGA, Eric Ferguson KA6USJ, Cal Vasquez K6VT, Jim Siemons W6LK, Misa Siemons KJ6BUE, and Marilyn Warren W6MEW-YL. The vice president was not present.

The President passed out the agenda and the previous meeting's minutes.

7:00 The meeting was called to order by President Larry Bradley. Introductions were made around the table. Minutes of the last meeting were approved without comment. The agenda was reviewed.

President: No report. Secretary: No Report.

Treasurer: The additions to the budget report for May, and the present status of the treasury, were reviewed. The auction profit has been deposited. The changes to the figures on the budget sheet were discussed.

Education: The General class has been completed.. The average class attendance was 15 students. The average Elmer attendance is 10 Elmers. License testing will occur on 6/6/19. There was a discussion about a projector to be located at the Trinity Lutheran Church. The President will contact Dick Brown to obtain a projector. [Note: After the meeting it was decided that it would be better to repurpose the extra projector that Ed Morales KJ6KYT brings to the general meetings.]  
Emergency Communications: Everything is working.

Pacificon: The event is coming together. Some vendors are not returning. The committee is working on signups for presentations.

Digital: No report. Outreach: Chairman was not present.

Technical: All systems are operating. The Winlink group wants to put a digipeater on North Peak. There is not any rack space for that equipment. We need 6 bottles (cavity filters) on North Peak.

Vehicle: A trailer hitch was added to the van.

Trailer: Mike Warren W6MEW, is the new Trailer Committee Chairman. A printer was donated to the trailer. Mike purchased a 40" video screen for showing videos outside of the trailer. An ARRL communications banner was purchased for the trailer.

Field Day: A Field Day Committee meeting was held with 10 hams participating. We need a food supervisor, or there will not be a BBQ on Saturday evening.

Outreach: The Outreach Committee has sent out publicity on Field Day, and is getting MDARC tri-fold fliers printed for Field Day.

License Testing: No report. Public Service: Not present. Membership: Not present

## Unfinished Business:

1. Repeater Rebuilding Project: There have still been no official requests for funding.
2. Membership Survey: The membership survey was sent to the membership via Constant Contact. The survey results were sent to the board members during the board meeting.
3. The Repeater Operating Policy information will be sent out for comments.

4. Written Comm. Van policy: The Comm Van Chairman was not present.
5. The trailer use/safety policy should be sent to the MDARC Van Committee chairman.
6. The Trailer waiver modification person was not present.
7. The Membership Coordinator was not present.
8. The Make-it Class item had no comments.

There was a discussion about library presentations, specifically at the Walnut Creek Library on Oak Grove Road.

9. The Technical Committee Chairman will be getting some racks from Lowe's in two weeks.

#### New Business

1. The check for the 2017 Field Day food was mailed to Beverly Heathorn on Sunday, June 2.
- 8:26 The meeting was adjourned.

*Respectfully submitted, Larry Loomer, MDARC Secretary*

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# FREE BATTERIES !

I have been notified that eight - 210 Amp Hour batteries are available **FOR FREE** to area amateur radio operators.

They are former diesel generator startup batteries that have been well maintained, and are being replaced with new startup batteries.

I have three of these batteries in my ham shack serving as backup 12 VDC for my radios.

One of these batteries is the main 12 VDC source for the radios in the MDARC Communication Trailer.

If you would like to have one or more of these batteries for your ham shack, or for any other 12 volt purpose, please contact me at: <larylloomer@yahoo.com> .

— *Larry Loomer, KI6LNB*



# SS Jeremiah O'Brien Tour

## September 21, 10:00 AM

Join the Palo Alto Amateur Radio Association (PAARA) on a tour of the SS Jeremiah O'Brien, a WWII Liberty Ship. The cost is \$33 per person and includes a docent guided tour of the ship and a box lunch provided by Boudin's Bakery. Estimated tour time is about 3 Hours. If you choose, you may also, on your own, tour the SS Pampanito, a WWII Submarine docked just forward of the SS Jeremiah O'Brien.

### Tour Details

- **Where:** Pier 45, Fisherman's Wharf, San Francisco
- **When:** September 21, 2019, 10:00 AM
- **Cost:** \$33,(includes ship tour and a box lunch)



**Last day to sign up is Friday, September 13, 2019.**

To sign up for the tour, go to the PAARA website, [www.paara.org](http://www.paara.org) and click on the link to the tour. Please include your Name, Call Sign, and Lunch selection. Please make a separate order for each person attending.

You may use credit card or PayPal on the PAARA website. You may also use cash or check if paying me directly.

Parking can be an issue. A few parking suggestions will be posted nearer the tour date. Consider carpooling or using public transportation.

### Box lunch choices are:

- Tuna Salad (on sliced sourdough)
- Chicken Salad (on sliced sourdough)
- Turkey & Havarti Cheese (on sourdough roll)
- Bavarian Ham & Swiss (on rustic Ciabatta)    California Veggie (on sliced sourdough)

All lunches include one (1) Sandwich, one (1) bag of chips, one (1) bottle of water, and one (1) cookie.

If you have questions, contact me at [mcwayne2@comcast.net](mailto:mcwayne2@comcast.net) or 408-234-8023.

### A little SS Jeremiah O'Brien history

In June 1943 the Liberty Ship SS Jeremiah O'Brien slid down the ways at the New England Shipbuilding Corporation in South Portland, Maine. Shortly thereafter she entered service, operated by Grace Line for the War Shipping Administration. Named for the first American to capture a British naval vessel during the Revolutionary War, the O'Brien made seven World War II voyages, ranging from England and Northern Ireland to South America, to India, to Australia. She also made eleven crossings of the English Channel carrying personnel and supplies to the Normandy beaches in support of the D-Day invasion. After the war, she was "mothballed" and laid up in the Reserve Fleet at Suisun Bay, north of San Francisco.



Nevada State Amateur Radio Convention

# NVCON

RENO-TAHOE 2019

## July 19 - 20, 2019

Boomtown Casino Hotel • Reno, NV

● **Friday Amateur Radio Academy**

In-depth Classes / Workshops

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Get Your Amateur Radio License in a Day

● **Amateur Radio Forums**

Presentations on Amateur Radio Related Topics

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Popular Amateur Radio Vendors and Exhibitors

● **Saturday Ham Swap**

Sell, Buy, Trade starting at 6am

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Tech, General & Extra Exams

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Amateur Radio Raffle Prizes

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visit <http://nvcon.org> for more info

# <http://nvcon.org>



# HAM RADIO OUTLET

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## IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



## IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



## IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



## ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

## ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz\*\* • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



**KENWOOD**



## TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



## TM-D710G | 2M/440 Dualband

- V-V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



## TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



## TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

## TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



**YAESU**  
The radio



## FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



## FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



## FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



## FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

## FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
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- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

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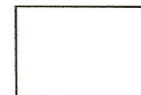
Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.





## The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club  
P.O. Box 23222  
Pleasant Hill, CA 94523  
[www.mdarc.org](http://www.mdarc.org)



## FIRST CLASS



<https://www.facebook.com/mdarc.org>

### W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.781- 441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

FM 147.060 MHz + / PL 100Hz -

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

ATV Internet Stream: <http://w6cxatv.mdarc.org/>

### Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

### Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

### Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 434.00 AM (PL 67.0) 1270.000 FM (PL 192.8)

## July and August 2019 Club Calendar

Friday July 19, 2019	7:30pm	MDARC General Meeting - Our Savior's Lutheran Church 1035 Carol Lane, Lafayette
Saturday August 3, 2019	8:00am	MDARC Technical Committee Meeting - Ygnacio Valley Library 261 Oak Grove Road, Walnut Creek
Monday August 5, 2019	7:00pm	MDARC Board of Directors Meeting - Black Bear Diner 700 Bancroft Road, Countrywood Shopping Center, Walnut Creek
Friday August 16, 2019	7:30pm	MDARC General Meeting - Our Savior's Lutheran Church